

Appl. No. 10/688,118
Atty. Docket No. 9066M2
Amdt. dated January 17, 2006
Reply to Office Action of Sept 27, 2005
Customer No. 27752

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A composition suitable for atomizing without excessive aerosolization in the form of an oil-in-water emulsion comprising:
 - a) a continuous aqueous phase, [[and]]
 - b) a discontinuous oil phase; and
 - c) softening active ingredient;wherein a) and b) comprise an oil-in-water emulsion and the rheology of the aqueous phase is modified by the addition of a water-in-oil emulsion into the oil-in-water emulsion, the water-in-oil emulsion comprising:
 - i) a high molecular weight polymer in a discontinuous aqueous phase, and
 - ii) a continuous organic solvent phase.
2. (Original) A composition according to Claim 1 wherein the continuous aqueous phase of the oil-in-water emulsion comprises less than about 45% by weight of the composition.
3. (Original) A composition according to Claim 1 wherein the high molecular weight polymer comprises from about 0.0005% to about 0.5% by weight of the composition.
4. (Original) A composition for softening an absorbent paper tissue comprising:
 - a) a quaternary ammonium softening active ingredient;
 - b) an electrolyte;
 - c) a vehicle in which said softening active ingredient is dispersed;wherein the rheology of the composition is modified by the addition of a water-in-oil emulsion comprising:
 - i) from about 20% to about 40% by weight of the premix of a high molecular weight polymer;
 - ii) from about 40% to about 60% of water; and
 - iii) from about 20% to about 40% of an organic solvent.

Appl. No. 10/688,118
 Atty. Docket No. 9066M2
 Amdt. dated January 17, 2006
 Reply to Office Action of Sept 27, 2005
 Customer No. 27752

5. (Original) A composition according to Claim 4 wherein the polymer is a cationic polymer

6. (Currently Amended) A composition for softening an absorbent paper tissue comprising:
 - a) from about 10% to about 60% by weight of the composition of a quaternary ammonium softening active ingredient;
 - b) an electrolyte;
 - c) from about 0.0005% to about 0.5% of a high molecular weight polymer; and
 - d) [[a]] an aqueous vehicle in which said softening active ingredient is dispersed[[.]];
wherein the rheology of the aqueous vehicle is modified by the addition of a water-in-oil emulsion comprising:
 - i) the high molecular weight polymer in a discontinuous aqueous phase, and
 - ii) a continuous organic solvent phase.

7. (Original) The composition of Claim 6 wherein said softening active ingredient is selected from the group consisting of quaternary compounds; mono-, di-, and tri-ester quaternary ammonium compounds, and mixtures thereof.

8. (Original) The composition of Claim 7 wherein said softening active ingredient is a mono-, di-, or tri-ester quaternary ammonium compound having the formula:

$$(R_1)_{4-m} - N^+ - [(CH_2)_n - Y - R_3]_m X^-$$
 wherein Y is -O-(O)C-, or -C(O)-O-, or -NH-C(O)-, or -C(O)-NH-;
 m is 1 to 3; n is 0 to 4; each R₁ is a C₁-C₆ alkyl or alkenyl group, hydroxyalkyl group, hydrocarbyl or substituted hydrocarbyl group, alkoxylated group, benzyl group, or mixtures thereof;
 each R₃ is a C₁₃-C₂₁ alkyl or alkenyl group, hydroxyalkyl group, hydrocarbyl or substituted hydrocarbyl group, alkoxylated group, benzyl group, or mixtures thereof; and
 X⁻ is any softener-compatible anion.

9. (Original) The composition of Claim 8 wherein m is 3, n is 2, R₁ is methyl, R₃ is C₁₅-C₁₇ alkyl or alkenyl, and Y is -O-(O)C-, or -C(O)-O-.

Appl. No. 10/688,118
Atty. Docket No. 9066M2
Amdt. dated January 17, 2006
Reply to Office Action of Sept 27, 2005
Customer No. 27752

10. (Original) The composition of Claim 4 further comprising from about 2% to about 75% by weight of a plasticizer.
11. (Original) The composition of Claim 4 wherein the electrolyte comprises up to about 15% by weight of the composition.
12. (Original) The composition of Claim 4 further comprising from about 1% to about 20% by weight of the composition of a bilayer disrupter.
13. (Original) The composition of Claim 4 wherein the vehicle is water.
14. (Original) A composition for softening an absorbent tissue comprising:
 - a) from about 25% to about 45% by weight of a quaternary ammonium softening active ingredient;
 - b) from about 0.0005% to about 0.2% by weight of a high molecular weight polymer delivered to the composition in the form of a water-in-oil emulsion comprising the high molecular weight polymer, water and an organic solvent.
 - c) from about 5% to about 50% by weight of a plasticizer;
 - d) from about 0.1% to about 10% by weight of an electrolyte; and
 - e) a vehicle consisting of water, in which said softening active ingredient is dispersed.
15. (Original) A soft tissue paper product, said soft tissue paper product comprising:
 - a) one or more plies of a tissue paper; and
 - b) a chemical softening composition deposited on at least one outer surface of said tissue, said chemical softening composition comprising:
 - i) a quaternary ammonium softening active ingredient;
 - ii) an electrolyte;
 - iii) a high molecular weight polymer emulsion comprising:
 - A) from about 20% to about 40% by weight of the premix of a high molecular weight polymer;
 - B) from about 40% to about 60% of water; and
 - C) from about 20% to about 40% of an organic solvent; and
 - iv) a vehicle in which said softening active ingredient is dispersed.

Appl. No. 10/688,118
 Atty. Docket No. 9066M2
 Amdt. dated January 17, 2006
 Reply to Office Action of Sept 27, 2005
 Customer No. 27752

16. (Original) The tissue paper according to Claim 15 wherein the chemical softening composition is deposited onto the paper as a spray.

17. (Original) The tissue paper of Claim 15 wherein said chemical softening composition is deposited as uniform, discrete surface deposits, spaced apart at a frequency between about 5 areas per lineal inch and about 100 areas per lineal inch.

18. (Original) The tissue paper of Claim 15 wherein softening active ingredient is a quaternary ammonium compound having the formula:

$$(R_1)_{4-m} - N^+ - [(CH_2)_n - Y - R_3]_m X^-$$

wherein Y is -O-(O)C-, or -C(O)-O-, or -NH-C(O)-, or -C(O)-NH-;
 m is 1 to 3; n is 0 to 4; each R₁ is a C₁-C₆ alkyl or alkenyl group, hydroxyalkyl group, hydrocarbyl or substituted hydrocarbyl group, alkoxyated group, benzyl group, or mixtures thereof;
 each R₃ is a C₁₃-C₂₁ alkyl or alkenyl group, hydroxyalkyl group, hydrocarbyl or substituted hydrocarbyl group, alkoxyated group, benzyl group, or mixtures thereof; and
 X⁻ is any softener-compatible anion.

19. (Original) The tissue paper of Claim 18 wherein the softening composition comprises:
 - a) a quaternary ammonium softening active ingredient;
 - b) an electrolyte;
 - c) from about 0.0005% to about 0.01% of a high molecular weight polymer;
 and
 - d) a vehicle in which said softening active ingredient is dispersed.

20. (Original) The tissue paper of Claim 18 wherein the softening composition comprises:
 - a) from about 25% to about 45% by weight of a quaternary ammonium softening active ingredient;
 - b) from about 0.0005% to about 0.2% by weight of a high molecular weight polymer delivered to the composition in the form of an emulsion comprising the high molecular weight polymer, water and an organic solvent.
 - c) from about 5% to about 50% by weight of a plasticizer;
 - d) from about 0.1% to about 10% by weight of an electrolyte; and

Appl. No. 10/688,118
Atty. Docket No. 9066M2
Amdt. dated January 17, 2006
Reply to Office Action of Sept 27, 2005
Customer No. 27752

- e) a vehicle consisting of water, in which said softening active ingredient is dispersed.